

CURRICULUM VITAE**CPT Alan Thomas Remaley, M.D., Ph.D.**

National Institute of Health
Department of Laboratory Medicine
Bldg. 10/ Rm. 2C-433
9000 Rockville Pike
Bethesda, MD. 20892
Tel: (301) 402-9796
Fax: (301)-402-1885
aremaley@nih.gov

Education:

B.S., Biochemistry and Chemistry
University of Pittsburgh, Pittsburgh, PA

Ph.D., Biochemistry
University of Pittsburgh School of Medicine, Pittsburgh, PA

M.D.
University of Pittsburgh School of Medicine, Pittsburgh, PA

Postgraduate Training:

Resident in Clinical Pathology, Division of Laboratory Medicine, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA

Medical Staff Fellow, Public Health Service, National Institutes of Health, National Heart, Lung and Blood Institute, Molecular Disease Branch, Bethesda, MD

Senior Staff Fellow, Public Health Service, National Institutes of Health, National Heart, Lung and Blood Institute, Molecular Disease Branch, Bethesda, MD

Academic Positions:

1995-1997 Senior Staff/Public Health Service, Department of Laboratory Medicine, Director of General Chemistry Section, Clinical Center, National Institutes of Health, Bethesda, MD

1997-present Senior Staff/Public Health Service, Department of Laboratory Medicine, Director of Immunoassay Section, Clinical Center, National Institutes of Health, Bethesda, MD

Teaching Experience:

- 1981 -- Teaching assistant, Algebra, Trigonometry and Geometry,
Department of Mathematics, University of Pittsburgh
- 1987-1990 -- Assistant Instructor, Pathology-100 and 300, Department of
Pathology and Laboratory Medicine, University of Pennsylvania
School of Medicine
- 1998 -- FAES Instructor, Clinical Chemistry course, National Institutes
of Health, Bethesda, MD

Professional Licensure:

Medical License, Pennsylvania
Board Certification in Clinical Pathology

Awards and Honorary Societies:

- 2002 -Public Health Service Commendation Medal
2001 -Zak Award for Lipoprotein Research, Amer. Assoc. Clin. Chem.
2000 -Public Health Service Commendation Medal
1998 -Bicentennial Unit Commendation Medal, Public Health Service
1996 -Arteriosclerosis fellow in American Heart Association
1995 -American Assoc. Clinical Chemistry Young Investigator Award
1995 -American Assoc. Clinical Chemistry Lipoprotein Research Poster
Award
1993 -Acad. Clin. Lab. Physicians and Scientists Young Investigator Award
1992 -Diplomate, American Board of Pathology (Clinical Pathology)
1991 -Postdoctoral Fellowship Award, NIH (CA09140-15)
1988 -Diplomate, National Board of Medical Examiners
1987 -Brinton Prize for Academic Performance, Univ. Pitt. Medical School
1986 -University Scholar Award, University of Pittsburgh
1986 -Eli Goldstein Award for Academic Performance, Univ. Pitt. Medical
School
-AOA Honorary Society, University of Pittsburgh School of Medicine
-Culpeper Foundation Fellow Research Award
-Dean's Scholarship of the University of Pittsburgh
-Sigma Chi Scientific Junior Honorary Society
-Graduated with B.S. *Summa Cum Laude*, University of Pittsburgh
-University Scholar Award, University of Pittsburgh
-University Scholar Award, University of Pittsburgh
-Phi Eta Sigma Honorary Society
-Tri Beta Biological Honorary Award
-Westinghouse Science Scholarship Honors Group Award

Professional Memberships and Activities:

American Association of Clinical Chemistry (AACC), Mid-Atlantic Lipid Association, American Heart Association, Grant reviewer for Mid-Atlantic American Heart Association, Ad hoc reviewer (Journal of Biological Chemistry, Journal of Lipid Research, Clinical Chemistry, Metabolism, and Clinical Cancer Research, Circulation, Atherosclerosis, Analytical Biochemistry) Continuing Medical Education committee for the AACC. President of the Lipoprotein and Vascular Disease Division of the AACC, Advisory panel member for the Clinical Chemistry and Clinical Toxicology Device Panel of the Food and Drug Administration, Institutional Review Board member of NIDDK, NIH.

Research Training Experience:

Undergraduate Research: Department of Biochemistry, University of Pittsburgh, Subject: Biochemistry of secondary metabolism of *Penicillium brevicompactum*.

Doctoral Research: Department of Biochemistry, University of Pittsburgh School of Medicine, Subject: Purification and characterization of membrane-bound acid phosphatase of *Leishmania donovani* and its interaction with host defense mechanisms.

Post Doctoral Research: Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Subject: Molecular biology and cell biology of glycosylation of rabies virus glycoprotein and glycophorin.

NIH Research Fellowship/ Public Health Service: National Institutes of Health, National Heart, Lung, and Blood Institute, Molecular Disease Branch, Subject: 1) Cholesterol-regulated gene expression, 2) Apolipoprotein biosynthesis and secretion.

Patents:

Remaley, AT, Ruddell M, Miller PC: Apparatus and method for kinetic analysis of the intraoperative assay for parathyroid hormone. Patent #A1513US, April 1999

DeLeo, J.M.; **Remaley, A.T.**: System and method for intelligent quality control of a process.
Provisional Patent #17144762US, May 2000

Argraves, W.S.; Hammad, S.M.; Steffinson, S.; Brewer, H.B.; **Remaley, A.T.**: Method and Composition for HDL Holoparticle Uptake Receptor. Provisional Patent #60/085-556, June 1998

Remaley, AT, Sampson ML, Cskao, G: A dual HDL/Total cholesterol test. Provisional Patent #15280-393000US, May 2000

Denefle P, Rosier M, Arnould-Reguigne E, Duverger N, Jaye M, Seafoss G, **Remaley AT**, Brewer HB, Dean M: Nucleic acid of the human ABCA1 gene and the therapeutic and diagnostic application. Provisional Patent #99402668,0-2116, August 1999

Publications:

1. Bartman, C.D.; Doerfler, D.L.; Bird, B.A.; **Remaley, A.T.**; Peace, J.N.; Campbell, I.M.: Mycophenolic Acid Production by *Penicillium brevicompactum* on Solid Media. *Appl. Env. Microbiol.*, 41:729-736, 1981.
2. Bird, B.A.; **Remaley, A.T.**; Campbell, I.M.: Brevianamides A and B are formed only after Conidiation has begun in Solid Cultures of *Penicillium brevicompactum*. *Appl. Env. Microbiol.*, 42:521-525, 1981.
3. Campbell, I.M.; Bartman, C.D.; Doerfler, D.L.; Bird, B.A.; **Remaley, A.T.**: The Role of Secondary Metabolism in *Penicillium brevicompactum*. In: *Advances in Biotechnology*. M. Moo-Young, C. Vezina and K. Singh (Eds.), Pergamon, Toronto. Chapter 3, pp. 9-14, 1981.
4. Campbell, IM.; Doerfler, D.L.; Bird, B.A.; **Remaley, A.T.**; Rosato, L.M.; Davis, B.N.: Secondary Metabolism and Colony Development in Solid cultures of *Penicillium brevicompactum* and *Penicillium patulum*. *FEMS Symp.* 13:141-151, 1983.
5. **Remaley, A.T.**; Kuhns, D.B.; Basford, R.E.; Glew, R.H.; Kaplan, S.S.: Leishmanial Phosphatase Blocks Neutrophil Superoxide Anion Production. *J. Biol. Chem.*, 259:11173-11175, 1984.
6. Saha, A.K.; Dowling, J.N.; LaMarco, K.L.; Das, S.; **Remaley, A.T.**; Olomu, N.; Pope, M.T.; Glew, R.H.: Properties of an Acid Phosphatase from *Legionella micdadei* which Blocks Superoxide Anion Production by Human Neutrophils. *Arch. Biochem. Biophys.*, 243:150-160, 1985.
7. **Remaley, A.T.**; Das, S.; Campbell, P.I.; LaRocca, G.M.; Pope, M.T.; Glew, R.H.: Characterization of *Leishmania donovani* Acid Phosphatases. *J. Biol. Chem.*, 260:880-886, 1985.
8. **Remaley, A.T.**; Glew, R.H.; Kuhns, D.B.; Basford, R.E.; Waggoner, A.S.; Ernst, L.A.; Pope, M.B.: *Leishmania donovani*: Surface Membrane Acid Phosphatase Blocks Neutrophil Oxidative Metabolite Production. *Exp. Parasitol.*, 60:331-341, 1985.
9. Glew, R.H.; Basu, A.; Prenc, E.M.; **Remaley, A.T.**: Biology of Disease: Lysosomal Storage Diseases. *Lab. Invest.* 53:250-269, 1985.
10. Das, S.; Saha, A.K.; **Remaley, A.T.**; Glew, R.H.; Dowling, J.N.; Kajiyashi, M.; Gottlieb, M.: Hydrolysis of Phosphoproteins and Inositol Phosphates by Cell Surface Phosphatase of *Leishmania donovani*. *Molec. and Biochem. Parasitol.*, 20:143-153, 1986.
11. **Remaley, A.T.**; and LaMarco, K.L.: Phenylketonuria: A Dihydropteridine Reductase Deficiency. In: *Clinical Studies in Medical Biochemistry*. R.H. Glew and S.P. Peters (Eds.), Oxford University Press, 1987: pp. 147-154
12. Glew, R.H.; Saha, A.K.; **Remaley, A.T.**; Das, S.: Biochemistry of Leishmania. *Microbiol. Reviews*, 52:412-32, 1988
13. **Remaley, A.T.**; Kennedy, J.M.; Laposata, M.: Evaluation of the Clinical Utility of Platelet Aggregation Studies. *Amer. J. Hematol.*, 31:188-93, 1988

14. **Remaley, A.T.**; Hicks, D.G.; Kane, M.; Shaw, L.S.: Laboratory Assessment of Poisoning with a Carbamate Insecticide. *Clin. Chem.*, 34:1933-1936, 1988
15. **Remaley, A.T.**; Bulley, M.; Senior, M.B.; Goodman, D.B.P.: Discordant hCG Measurements in a Patient with a Carcinoma. *Clin. Chem.*, 35:1259-60, 1989
16. **Remaley, A.T.**; Wilding, P.: Macroenzymes: Biochemical Characterization, Clinical Significance, and Laboratory Detection. *Clin. Chem.*, 35:2261-70, 1990
17. **Remaley, A.T.**; Goodman, D.B.P.: Markedly Increased Concentrations of Ferritin in an AIDS Patient with Disseminated Histoplasmosis. *Clin. Chem.*, 36:1992-3, 1990
18. Burger, S.R.; **Remaley, A.T.**; Danley, J. M.; Moore J.S., Muchelle, R.J.; Wunner, W.H., Spitalnik, S.L.: Stable Expression of Rabies Virus Glycoprotein in Chinese Hamster Ovary Cells. *J. Gen. Virol.*, 72:359-367, 1991
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20. Shakin-Eshleman, S.H.; **Remaley, A.T.**; Eshleman, J.R.; Wunner, W.H.; Spitalnik, S.L.: N-Linked Glycosylation of Rabies Virus Glycoprotein: Individual Sequons Differ in their Glycosylation Efficiencies and Influence on Cell Surface Expression. *J. Biol. Chem.*, 267: 10690-10698, 1992
21. **Remaley, A. T.**; Wong, A.W.; Schumacher, U.K.; Meng, M.S.; Brewer, H.B.; Hoeg, J.M.: O-Linked Glycosylation Modifies the Association of Apolipoprotein A-II to High Density Lipoproteins. *J. Biol. Chem.*, 268: 6785-6790, 1993
22. Hoeg, J.M.; **Remaley, A.T.**: Reverse Cholesterol Transport. In: *Genetic Factors in Heart Disease*. U. Goldbourt, U. deFaire and K. Berg (Eds.), Kluwer Academic Publishers, 1994 pp. 351-372
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29. **Remaley, A.T.**: Abetalipoproteinemia: A Disorder of Lipoprotein Assembly In: Clinical Studies in Medical Biochemistry. R.H. Glew (Ed.), Oxford University Press, 1997: pp. 195-201
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35. **Remaley A.T.**; Woods J.W.; Glickman J.W.: Point-of-care Testing of Parathyroid Hormone During the Surgical Treatment of Hyperparathyroidism. *Medical Laboratory Observer* 31: 20-7, 1999
36. **Remaley A.T.**; Sampson M.L.; DeLeo J.M., Remaley N.A.; Farsi B.D.; Zweig M.H. Prevalence-value-accuracy plots: A new method for comparing tests based on the cost of misclassifications. *Clinical Chemistry* 45:934-41, 1999
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48. Woods, JM, Sampson, ML, and **Remaley AT**. Rapid intraoperative cortisol assay: Design and utility for localizing adrenal tumors by venous sampling. Clinical Biochemistry 2000, 33(6):501-503.

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Heat shock protein 60 is a high affinity high density lipoprotein binding protein. *Biochem. Biophys Res. Commun.*, 2000, 277(1):228-35.
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